

**DESCRIPTION**

Under this item the CONTRACTOR shall furnish and place a penetrating sealer for concrete on surfaces as shown on the plans or as directed by the ENGINEER.

**MATERIALS**

Materials for this work shall meet the requirements of the following NYSDOT Specification:

§ 717-03 Penetrating Type Protective Sealers

**CONSTRUCTION DETAILS**

The penetrating sealer shall be placed on dry concrete surfaces cleaned by sandblasting of all dirt, debris, oil, grease, or any other foreign substances which would inhibit penetration, adhesion, or drying of the penetrating sealer. New concrete surfaces shall not be treated in less than twenty-eight (28) days after pouring. A dry surface is defined as one which does not show the presence of any moisture, when a piece of clean dry blotting paper is laid on the surface in intimate contact for one (1) hour.

The penetrating sealer shall be applied, as directed, by approved mechanical pressure spray equipment, by portable hand spray equipment, by brushing or rolling, or a combination of these methods, to insure complete even coverage of the concrete surface being treated, at the specified rate. All equipment used for applying penetrating sealer for concrete shall be clean and free from all material which will contaminate the coating. Spray equipment, when used, shall be so adjusted that the nozzle is not more than 457 mm from the surface being treated.

The penetrating sealer shall be applied in accordance with the manufacturer's recommendation.

The penetrating sealer, preferably, shall be applied under weather conditions suitable for drying, when the temperature of the air and the concrete surface is between 16 deg C and 27 deg C. In no case shall the application of the penetrating sealer be permitted when air and/or concrete temperature is below 2 deg C and the air temperature is not rising; or higher than 38 deg C; or the relative humidity more than 85%; or weather predictions indicate rain in twenty-four (24) hours, or in the opinion of the ENGINEER conditions are such as to produce unsatisfactory results.

The sandblasting shall be a brush off blast cleaning to the satisfaction of the ENGINEER.

**SAFETY PRECAUTIONS**

At no additional expense to the COUNTY, every precaution must be taken to protect traffic, workmen, and the concrete surface against the occurrence of fire in the presence of inflammable and volatile materials. Slippery pavement, or any other hazard or

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inconvenience to traffic, resulting from the application of the protective coating, shall be corrected by the CONTRACTOR as directed by the ENGINEER.

The penetrating sealer shall not alter concrete color, reflective index, or texture.

**METHOD OF MEASUREMENT**

The quantity to be paid for will be the actual number of square meters of surface area measured in place in the completed work.

**BASIS OF PAYMENT**

The unit price bid per square meter shall include the cost of furnishing all labor, materials, and equipment necessary, including sandblasting, to complete the work in accordance with the sealer manufacturer's recommendations.

Payment will be made under:

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Pay Unit</u></b>
559.0302M	Penetrating Sealer for Concrete	SM